"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOYMANN, Kh.

Theory of field emission from metals covered with a thin semiconducting layer. Fiz.tver.tela 3 no.11:3395-3399 N '61. (MIRA 14:10)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.
(Field emission)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOYMAN, K., inzh.

Concerning article by Krushel' and others' "Operation of superimposed turbines under the conditions of alternating counter-pressure." (MIRA 14:12)
Teploenergetika 8 no.12:92 D '61.
(Steam turbines)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

Neymann Kh

S/181/61/003/011/024/056
B125/B102

AUTHOR: Hoymann, Kh.

TITLE: A contribution to the theory of autoelectronic emission of a metal covered with a thin semiconductor layer

PERIODICAL: Fizika tverdogo tela, v. 3, no. 11, 1961, 3395-3399

TEXT: The autoelectronic current density was calculated as a function of height and width of an additional barrier on the assumption that the surface potential of the metallic emitter can be expressed as the potential of the pure metal plus an additional potential barrier. From the general formula

$$j_{lim} = e\int_{-\chi+V_0}^{\infty} D(W,F)N(W)dW \quad (1)$$

the expression

$$j_{spec.} = \frac{kT}{2\pi^2}\int_{-\chi+V_0}^{\infty} \exp\left\{-\frac{4\sqrt{2}}{3}F^{-1}|W|^{3/2}v\left(\frac{F^{1/2}}{|W|}\right)\right\}\times \quad (4)$$

$$\times \ln\left[1+\exp\left\{-\frac{W+\chi}{kT}\right\}\right]dW,$$

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is derived for the autoelectronic current density. As the integral of (4) cannot be solved for all the values of W, some simplifications are necessary: (a) For $V_0 \gg kT$, the current density is given by

$$j_{\text{преа.}} = \frac{(kT)^2}{2\pi^2(1-B_1kT)} \exp\left\{-\frac{V_0}{kT}\right\} \times$$
$$\times \exp\left\{-\frac{4\sqrt{2}}{3} F^{-1}(\chi - V_0)^{3/2} v\left(\frac{F^{1/2}}{\chi - V_0}\right)\right\} \quad (7)$$

under the condition $B_1kT - 1 < 0$, which is satisfied for the temperatures and field strengths assumed. (b) If $V_0 > 0$ and of the order of kT, the current density is given by

$$j_{\text{преа.}} = \frac{kT}{2\pi^2} \exp\left\{-\frac{4\sqrt{2}}{3} F^{-1}(\chi - V_0)^{3/2} v\left(\frac{F^{1/2}}{\chi - V_0}\right)\right\} \times$$
$$\times \int_{-\chi + V_0}^{\infty} \exp\{B_1(W + \chi - V_0)\} \ln\left[1 + \exp\left\{-\frac{W+\chi}{kT}\right\}\right] dW. \quad (9).$$

(c) If $V_0 < 0$ and close to the Fermi level,

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A contribution to the theory of...

$$j_{\text{spez.}} = \frac{kT}{2\pi^2} \exp\left\{-\frac{4\sqrt{2}}{3} F^{-1} \chi^{3/2} v\left(\frac{F^{1/2}}{\chi}\right)\right\} \times$$

$$\times \int_{-\chi+V_1}^{\infty} \exp\{B_2(W+\chi)\} \ln\left[1+\exp\left\{-\frac{W+\chi}{kT}\right\}\right] dW, \qquad (10)$$

is valid, where $B_2 = 2\sqrt{2}\, F^{-1}\chi^{1/2} t(F^{1/2}/\chi)$. The integrals contained in (9) and (10) can be solved only numerically. The current density of a pure metal is given by

$$j_m = (1/2\pi^2 B_2^2)\exp\left\{-(4\sqrt{2}/3)F^{-1}\chi^{3/2} v(F^{1/2}/\chi)\right\} \qquad (13).$$

In cases (a) and (b) a variation of the slope and a current drop are to be expected. In case (c) the slope does not vary, but there is a significant current drop. For a rectangular additional barrier the permeability is given by

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A contribution to the theory of...

$$D_z=\left[1+\frac{(k^2+|k'|^2)^2}{4k^2|k'|^2}\operatorname{sh}^2(|k'|l)\right]^{-1},$$

$$k^2=\frac{2m}{\hbar^2}(W+W_a),\ |k'|^2=\frac{2m}{\hbar^2}(-W-\chi+V_0). \qquad (14).$$

l is the width of the additional barrier, and $W = -W_a$ is the bottom of the conduction band of the metal. The total permeability being $D_z D$, the total current density is

$$j=e\int_{-\infty}^{-\chi+V_0} D(W,\ F)D_z(W,\ l)\times N(W)\,dW+e\int_{-\chi+V_0}^{\infty} D(W,\ F)\times N(W)\,dW. \qquad (15)$$

and for $D_z \approx$ const the equation

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A contribution to the theory of...

$$j = eD_z \int_{-\infty}^{-\chi+V_0} D(W, F) N(W) dW +$$

$$+ e \int_{-\chi+V_0}^{\infty} D(W, F) N(W) dW \quad (16)$$

follows. A comparison of (16) with (1) gives

$$j = D_z(j_m - j_{lim}) + j_{lim} \quad (17).$$

If the experimental data for j, j_{lim} and j_m are known, V_o and l can be estimated for any special case. The author thanks I. L. Sokol'skaya who suggested the subject of the present paper and discussed its results. There are 3 figures and 5 references: 1 Soviet and 4 non-Soviet. The three references to English-language publications read as follows: E. L. Murphy a. R. H. Good Jr. Phys. Rev., 102, 1464, 1956; S. C. Miller a. R. H. Good Jr. Phys. Rev., 91, 174, 1953; R. E. Burgess, H. Kroemer, J. M. Houston. Phys. Rev., 90, 515, 1953.

Card 5/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

A contribution to the theory of... S/181/61/003/011/024/056
B125/B102

ASSOCIATION: Leningrad gosudarstvennyy universitet im. A. A. Zhdanova
(Leningrad State University imeni A. A. Zhdanov)

SUBMITTED: June 13, 1961

Card 6/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

ACCESSION NR: AP4034926 S/0181/64/006/005/1439/1448

AUTHORS: Sokol'skaya, I. L.; Noymann, Kh.; Kloze, E.

TITLE: A study of surface migration of molybdenum by the method of field emission

SOURCE: Fizika tverdogo tela, v. 6, no. 5, 1964, 1439-1448

TOPIC TAGS: field emission, surface migration, molybdenum, autoelectronic current, activation energy

ABSTRACT: The authors used the method discussed by I. L. Sokol'skaya (ZhTF, 26, 1177, 1956; Izv. AN SSSR, 20, 1151, 1956). They determined the activation energy for the surface migration of Mo atoms along the natural lattice from a study of the temperature dependence of the time behavior and of the autoelectronic current on heating a point of monocrystalline Mo in a strong electrical field. The activation energy was found to be 2.00 ± 0.15 ev. Without the electrical field, the migration energy proved to be 2.86 ± 0.15 ev. The authors show that the difference between these values cannot be ascribed to any decrease in binding energy between surface atoms in a strong field. The effect of the field on activation energy is found to be negligible. The coefficient of surface tension, roughly computed, is 2600 dynes/cm. When the crystal point was heated in a field of positive polarity (at

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ACCESSION NR: AP4034926

the very end of the rearrangement process on the {001} faces) emission became very marked, increasing with time during constant anode potential. The increase in current, accompanying intense illumination in the (001) zone, frequently led to destruction of the point. This phenomenon did not appear during heating at the opposite polarity, which leads to the conclusion that it is due to the adsorption of active gases, which separate from the screen through electron bombardment and orient themselves on the surface because of the strong field. Orig. art. has: 11 figures and 1 table.

ASSOCIATION: Leningradskiy gosudarstvenny*y universitet (Leningrad State University)

SUBMITTED: 28Nov63 ENCL: 00

SUB CODE: MM, EC NO REF SOV: 002 OTHER: 020

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

ACCESSION NR: AP4039663 S/0181/64/ 006/006/1744/1749

AUTHORS: Noymann, Kh.; Kloze, E.; Sokol'skaya, I. L.

TITLE: Study of diffusion processes in rhenium with the aid of a field emission microscope

SOURCE: Fizika tverdogo tela, v. 6, no. 6, 1964, 1744-1749

TOPIC TAGS: diffusion process, rhenium, field emission microscope, activation energy, tungsten, thermal conductivity, body centered lattice, face centered lattice

ABSTRACT: The process of the change of form of monocrystalline points in rhenium under the influence high temperature and strong field was investigated with the aid of a field emission microscope. The method used for measuring the activation energy of this process was described by I. L. Sokol'skaya, Kh. Noymann, and E. Kloze (FTT 6, 1439, 1964). The rhenium emitter prepared by the method described by G. N. Fursey (Avtoref. Diss. LGU, 1963) was welded to a tungsten loop from a wire 0.112 mm in diameter 50 mm long. The measurements were taken in a temperature range of 1200-1800K. The residual pressure in the apparatus was 10^{-10} mm Hg. The value for the energy of activation in the presence of a

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ACCESSION NR: AP4039663

field was 1.5 ± 0.15 ev, while the energy of activation in the absence of field had the values of 1.5 ± 0.15 ev and 5.3 ± 0.5 ev. Orig. art. has: 2 sets of photographs and 4 figures.

ASSOCIATION: Leningradskiy gosudarstvenny*y universitet (Leningrad State University)

SUBMITTED: 03Jan64

ENCL: 00

SUB CODE: SS

NO REF SOV: 003

OTHER: 027

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOYMAN, V. (g.Leningrad)

Concerning a certain method for tuning a superheterodyne. Radio no.1:27 Ja '62. (MIRA 15:1)
(Radio--Receivers and reception)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOYMAN, .

Dissertation: "The Effect of Caffein, Phenamine, and Sodium Bromide on Erythropoiesis in Experimental Posthemorrhagic Anemia." Cand Med Sci, First Moscow State Inst, Moscow, 1952. Referativnyy Zhurnal--Khimiya, Moscow, No 2, Jan 54.

SO: SUM 284, 26 Nov 1954

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOYMANN, Kh.; KLOZE, E.; SOKOL'SKAYA, I.L.

Use of a field emission microscope in studying diffusion processes in rhenium. Fiz. tver. tela. 6 no.6:1744-1747 Je '64. (MIRA 17:9)

1. Leningradskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

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L 3348-66 EWT(m)/EPF(c)/EWA(d)/T/EWP(t)/EWP(b) LJP(c) JD/JG/WB

ACCESSION NR: AP5017291 UR/0181/65/007/007/2013/2020

AUTHOR: Noymann, Kh. 55

TITLE: Surface migration of silicon 27 on tungsten 27 44 55

63
57
B

SOURCE: Fizika tverdogo tela, v. 7, no. 7, 1965, 2013-2020

TOPIC TAGS: silicon, tungsten, surface property, surface active agent

ABSTRACT: The purpose of the investigation was to check on results of tests on surface migration of germanium on tungsten, carried out by I. L. Sokol'skaya and N. V. Mileshkina (FTT v. 6, 1786, 1964), who found that migration of a semiconductor on tungsten affects its emission properties. In the present investigation, the surface migration of silicon on tungsten was studied in a field-emission microscope. The experimental conditions are briefly described. The results showed the presence of two types of migration, high-temperature and low-temperature. The analogy of silicon migration with that of gas migration is confirmed. The corresponding migration energies are 0.75 ± 0.08 and 1.57 ± 0.15 eV for the low-temperature and high-temperature

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L 3348-66

ACCESSION NR: AP5017291

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migration on the (111) face, and (0.96 ± 0.10) and (1.78 ± 0.15) eV for migration from the (011) to the (00$\bar{1}$) face. The experimental data are in good agreement with the theoretical results of M. Drechsler (Z. Elektrochemie v. 58, 327, 1954). The results also show that the presence of silicon on the tungsten surface changes the surface energy of the faces, so that a new equilibrium form with other faces is produced. 'I thank I. L. Sokol'skaya for numerous hints during the experimental work and for a discussion of the results.' Orig. art. has: 9 figures and 1 table.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: 29Dec64 ENCL: 00 SUB CODE: SS

NR REF SOV: 005 OTHER: 020

Card 2/2 DP

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOYSZEWSKA-WOJCIECHOWSKA, M.

Dysgonic and eugonic tubercle bacilli in cerebrospinal meningitis in children treated with streptomycin. Gruzlica, Warsz. 20 no.1:13-18 Jan-Feb 1951. (CLML 22:3)

1. Of the Institute of Medical Microbiology (Head--Prof. Jan Adamski, M.D.) and of the Pediatric Clinic (Head--Prof. K. Jonscher, M. D.) of Poznan Medical Academy.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOYSZEWSKA-WOJCIECHOWSKA M.
(1074)

Zaklad Mikrobiol. lek. i Klin. Chorob dziec. Akad. med. w Poznaniu. Dysgoniczne i eugoniczne oratki gruzlicy w zapaleniu opon mozowordzeniowych u dzieci leczonych streptomycyna Dysgonic and eugonic tubercle bacilli in the CSF of children with tb meningitis treated with streptomycin Tuberculosis (Warsz.) 1952, 20/1(13-18) Tables 1

In 54 out of 92 patients the type of the bacilli was analysed. In 37 of them the bovine type was found, in 19 cases the human one. The course of the disease and response to streptomycin treatment seemed to be independent of the type of the bacilli. In patients treated with streptomycin the growth of the bacilli on Petri dishes was slower, especially in cases with clinical improvement.

Boguanowicz - Warsaw (XX, 8,4,7,15)

SO: EXCERPTA MEDICA Volume 6, Number 3, Section VIII March 1953

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOYSZEWSKI, J.

NOYSZEWSKI, J. Karpinski's machine for sowing fine seeds. p. 26.

Vol. 29, no. 12, Dec. 1955
LAS POLSKI
AGRICULTURE
Poland

So: East European Accession, Vol. 6, No. 5, May 1957

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOYSZEWSKI, Z.

NOYSZEWSKI, Z. Utensils for heating soup. p. 39.

Vol. 29, no. 9, Sept. 1955
LAS POLSKI
AGRICULTURE
Poland

So: East European Accession, Vol. 6, No. 5, May 1957

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

MATIKASHVILI, I.; NOZADZE, A.

Pneumatic drive for emergency braking. Avt.transp. 40 no.4: 42-43 Ap '62. (MIRA 15:4)
(Motor vehicles--Brakes)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

MCHADZE, A. D.

MCHADZE, A. D. --"The Filling of a Rolling-Mill Section Groove Depending on Its Profile and the Condition of Its Surface." Min Higher Education UCSR. Georgian Order of Labor Red Banner Polytechnic Inst imeni S. M. Kirov. Tbilisi, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No 1, 1957

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

GEDEVANISHVILI, G.K. [deceased]; NOZADZE, A.D.

Filling of section grooves depending on their shape with free widening of the rolled strip. Trudy Inst.met. AN Gruz.SSR 9:119-136 '58. (MIRA 12:8)
(Rolling (Metalwork)) (Deformations (Mechanics))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

GEDEVANISHVILI, G.K. [deceased]; NOZADZE, A.D.

Filling of section grooves depending on their shape in cases of restrained widening of the rolled strip. Trudy Inst.met. AN Gruz.SSR 9:137-144 '58. (MIRA 12:8)
(Rolling (Metalwork)) (Deformations (Mechanics))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, A.D.; VASHAKIDZE, A.S.

Rolling a square (or rectangular) strip in oval groove. [illegible]
Inst. met. AN Gruz. SSR vol. 13:[illegible]-229 '62. MIRA [illegible]

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

GEDEVANISHVILI, G.K. [deaceased]; NOZADZE, A.D.

Effect of the state of the lateral surfaces of a section wedge on groove filling with free widening of the rolled strip. Trudy Inst.met. AN Gruz.SSR 9:145-149 '58.
(MIRA 12:8)
(Rolling (Metalwork)) (Deformations (mechanics)) (Friction)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, A.D.

Effect of bloom height on metal flow in shaped grooves. Trudy Inst. met. AN Gruz. SSR 10:167-188 '60. (MIRA 13:12)
(Rolling (Metalwork))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

GEDEVANISHVILI, G.K. [deceased]; NOZADZE, A.D.

Effect of bloom width on metal flow in shaped grooves. Trudy Inst. met. AN Gruz. SSR 10:189-204 '60. (MIRA 13:12)
(Rolling (Metalwork))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

MOZADZE, A.D.; VASHAKIDZE, A.S.

Studying a system of oval - square calibers. Soob.AN Gruz. SSR 25 no.2:171-178 Ag '60. (MIRA 13:11)

1. AN GruzSSR, Institut metallurgii, Tbilisi. Predstavleno chlenom-korrespondentom Akademii F.N.Tavadze.
(Calibration) (Rolling (Metalwork))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, A.D.; VASHAKIDZE, A.S.

Investigating a set of rhomic and square gauges. Soob. AN Gruz. SSR 25 no. 3:319-326 S '60. (MIRA 14:1)

1. Akademiya nauk Gruzinskoy SSR, Institut metallurgii, Tbilisi. Predstavleno chlenom-korrespondentom Akademii nauk Gruzinskoy SSR F.N. Tavadze.

(Rolling (Metalwork))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, Aleksandr Davidovich; LOMSADZE, Dzhemal Mikhaylovich;

[Principles of rolling mill practice] [Osnovy prokatnogo proizvodstva. Tbilisi, Gos.izd-vo uchebno-pedagog. lit-ry "TSodna,"] 1961. 430 p. (MIRA 16:9)
(Rolling (Metalwork))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

[illegible]TII, [illegible] [deceased]; NO[illegible]DZE, A.D.

[illegible] tr[illegible] [illegible]tion in rolling [illegible] grooved
r[illegible] [illegible] Gruz. [illegible] 11:2[illegible]-2[illegible]4 '6[illegible].
(MIRA 14:1[illegible])

([illegible]lling(Met[illegible]))
(Deformations([illegible]))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

GEDEVANISHVILI, G.N. [deceased]; KOZADZ.., A.D.

Effect of the temperature of rolling on the filling of grooved rolls. Trudy Inst. met. AN Gruz. SSR 11:2 7-287 '61. (MIRA 14:10)

(Rolling(etalwork))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, A.D.; VASHKIDZE, A.S.

Rolling operations using asymmetrical square rool passes. Soob.AN Gruz. SSR 26 no.1:43-46 Ja '61. (MIRA 14:3)

1. Akademiya Nauk Gruzinskoy SSR, Institut metallurgii, Tbilisi. Predstavleno chlenom-korrespondentom Akademii F.N. Tavadze.
(Rolling(Metalwork))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

KURDIANI, G.P.; NOZADZE, A.D.; RAMISHVILI, Sh.D.

Determination of the contact area during rolling in roll grooves on a tube billet mill no.900/750. Soob. AN Gruz. SSR 35 no.3:635-640 S '64. (MIRA 17:11)

1. Institut metallurgii AN GruzSSR, Tbilisi. Predstavleno akademikom F.N. Tavadze.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

[illegible], G.P.; BRO[illegible], [illegible].Ya.; [illegible], [illegible]; [illegible], Sh.

Methods of cal[illegible] the parameters [illegible] force and power in rolling in drawing grooves. Soob. AN [illegible] SSR [illegible] no.[illegible] [illegible] [illegible] [illegible]4.

1. Gruzinskiy institut metal[illegible]. Submitted April [illegible], [illegible]4.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

KURDIANI, G.P.; ADAMIYA, R.Sh.; NOZADZE, A.D.; RAMISHVILI, Sh.D.

Using the method of electronic simulation in investigating torque distribution on spindles. Soob. AN Gruz. SSR 39 no.1: 137-143 Jl '65. (MIRA 18:10)

1. Gruzinskiy metallurgicheskiy institut. Submitted January 1, 1965.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

L 16812-66 EWT(1) SCTB DD

ACC NR: AT6003887 SOURCE CODE: UR/2865/65/004/000/0518/0530

AUTHOR: Zhironkin, A. G.; Breslav, I. S.; Konza, E. A.; Nozdrachev, A. D.; Salatsinskaya, Ye. N.; Troshikhin, G. V.; Fedorova, L. D.; Shmeleva, A. M.

45
B+1

ORG: none

TITLE: Effects of prolonged exposure to oxygen-enriched air on some physiological functions in animals

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 518-530

TOPIC TAGS: oxygen, hyperoxia, physiology, space medicine, closed ecology system

ABSTRACT: Experiments were performed on white mice kept 10 days in a closed system filled with air or a gaseous mixture containing 63% oxygen to determine the effects on some basic functions in relation to the length of exposure. The respiratory rate of the "oxygen" mice was noticeably slower than that of the control mice and their oxygen consumption was somewhat higher. Hyperoxia lowered thyroid function, changed hematological indices (decrease in hemoglobin concentration, number

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ACC NR: AT6003887

of erythrocytes, reticulocytes, and lymphocytes), and adversely affected the central nervous system (impairment of reflexes and decrease in excitability of some nerve centers). The changes noted were sharper after the 6th day of the experiment than after the 10th day, an indication of temporary adaptation. The authors conclude that it is relatively safe to breathe gaseous mixtures containing 63% oxygen for a 10 day period. However, the changes appearing on and after the 10th day, especially in the lungs and blood, are the initial signs of the pathological action of oxygen. Orig. art. has: 7 figures.

SUB CODE: 06/ SUBM DATE: 00/ ORIG REF: 043/ OTH REF: 013

Card 2/2 mcf

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

GRISHKOV, A.I., kand.tekhn.nauk; KURDIANI, G.P.; NOZADZE, A.D.

Reviews and bibliography. Stal' 25 no.3:255-256 Mr '65. (MIRA 18:4)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni I.P.Bardina (for Grishkov). 2. Rustavskiy metallurgicheskiy zavod i Institut metallurgii Gruzinskoy SSR (for Kurdiani, Nozadze).

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, A.Sh.

Determining parameters of sing-phase, commercial-frequency, electric traction rail circuits. Soob.AN Gruz.SSR 26 no.2: 175-180 '61. (MIRA 14:4)

1. Akademiya nauk Gruzinskoy SSR, Institut energetiki im. A.N. Didebulidze, Tbilisi. Predstavleno chelnom-korrespondentom Akademii O.D.Oniashvili.
(Electric railroads--Current supply)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, A.Sh.

Determining the contact resistance of alternating current track circuits. Soob. AN Gruz. SSR 27 no.4:439-444 O '61. (MIRA 15:1)

1. AN Gruzinskoy SSR, Institut energetiki imeni A.I. Didebulidze, Tbilisi. Predstavleno chlenom-korrespondent AN Gruzinskoy SSR L.G. Abelishvili.
(Electric railroads)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

MOZADZE, A.Sh.

Load distribution in an a.c. track circuit. Trudy Inst.energ.AN Gruz.SSR 16:113-118 '62. (MIRA 16:4)
(Electric railroads--Current supply)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, A.Sh.

A.C. track circuits with grounding stages. Trudy Inst.energ.AN Gruz.SSR 16:127-135 '62. (MIRA 16:4)
(Electric railroads--Current supply)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, A.Sh.

Study of "distant ground" in a.c. track circuits. Trudy Inst. energ. AN Gruz. SSR 17:285 '63. (MIRA 17:7)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

N[illegible], A.Sh.

Determining the impedance of a.c. track circuits. Soob. [illegible] Gruz. SSR 36 no.1:135-138 O '64. [illegible] :3

1. Gruzinskiy nauchno-issledovatel'skiy institut energetiki imeni Fidebulidze. Submitted February 7, 1964.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

AVALIANI, Sh.I.; NOZADZE, D.I.

Stimulating students' work in geography lessons. Geog. v shkole 23 no. 6:46-50 N-D '60. (MIRA 13:11)

1. Kutaisskiy institut usovershenstvovaniya uchiteley (for Avaliani). 2. 17-ya shkola g.Kutaisi (for Nozadze).
(Geography--Study and teaching)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, G. G., Cand of Tech Sci -- (diss) "Study of the viscosity and electrical conductivity of calcium-magnesium-phosphate-silicate fusions suitable for the production of melted magnophosphates." Moscow, 1957, 26 pp (Scientific Research Institute of Fertilizers and Insectofungicides im Prof Ya, V. Samoylov), 120 copies (KL, 30-57, 111)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, G.G.

Studying the viscosity and specific electric conductivity in calcium-magnesium-phosphate-silicate fusions. Soob. AN Gruz. SSR 19 no.5:597-604 N '57. (MIRA 11:6)

1. Nauchno-issledovatel'skiy institut po udobreniyam i insektofungisidam, Moskva. Predstavleno akademikom R.I. Agladze.
(Fusion) (Electric conductivity) (Viscosity)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, G.G.

Phosphides of nonferrous and light metals. N. N. Pietnikov, G. G. Nozadze, and O. V. Vasilieva. U.S.S.R. 109,648, Feb. 25, 1958. Cu, Ni, Al, and other phosphides are obtained by thermal treatment of a mixt. contg. P, C, and the metal. As a source of P are used natural low-Fe phosphates, such as apatite concentrate, natural phosphorites, and others together with a flux. M. Hosch

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MOZADZE, G.G.

Production of fused magnesium phosphates in Georgia. Soob. AN Gruz. SSR 20 no. 3:329-334 Mr '58. (MIRA 11:7)

1. Nauchnyy institut po udobreniyam i insektofungisidam im. prof. Ya. V.Samoylova. Predstavleno akademikom R.I.Agladze.
(Georgia--Magnesium phosphates)
(Fertilizers and manures)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, G.G.

Production of fused magnesium phosphates. Soob. AN Gruz.SSR 20 no.5:541-544 My '58. (MIRA 11:10)

1. Nauchno-issledovatel'skiy institut po udobreniyam i insekto-fungitsidam im.Ya.V.Samoylova. Predstavleno akademikom R.I. Agladze.

(Magnesium phosphates)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

N[illegible]ADZE, L.G.

Zoo[illegible] in [illegible] "A" of the [illegible] Fish Farm. Soob. AN Gruz. SSR [illegible] '62.

(MIRA 18:5)

[illegible] Institut zoologii AN Gruz. SSR, Tbilisi. Submitted July [illegible], [illegible]96[illegible].

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, R. I.

3(7) SOV/50-59-2-24/25

AUTHOR: Khmaladze, G. N.

TITLE: Scientific Meeting at the Tbilisi Scientific Research Institute of Hydrometeorology (Nauchnaya sessiya v Tbilisskom nauchno-issledovatel'skom gidrometeorologicheskom institute)

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 2, pp 70 - 71 (USSR)

ABSTRACT: In May 1958 the Tbilisskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (Tbilisi Hydrometeorological Scientific Research Institute) held a meeting in which the following representatives participated: Representatives of the Tsentral'nyy institut prognozov (Central Forecasting Institute), Glavnaya geofizicheskaya observatoriya (Main Geophysical Observatory), and the local administrations of the hydrometeorological services of the Transcaucasian Republics. On the occasion of the fifth anniversary of the Tbilisi NIGMI the director of the Institute V. P. Lominadze held a speech commemorating the event. Kh. P. Pogosyan (TsIP) spoke on the character of temperature distribution and the circulation of the atmosphere above the Antarctica. K. I. Papinashvili and Ye. A. Napetvaridze spoke on the characteristics of the

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circulation processes above Transcaucasia. M. A. Zakhashvili reported on the typification of synoptical processes carried out by him. R. I. Nozadze read two papers on theoretical questions of dynamic meteorology. V. M. Gigineishvili and V. P. Lominadze spoke on the present state of the fight against hail. F. T. Kharchilava spoke on the great amounts of precipitation on East Georgia, L. I. Bartishvili on meteorological visibility in cloudbursts, Ye. A. Polyakova (GGO) on the meteorological visibility in the case of precipitation and fog, G. I. Chiracadze on the precipitation in Georgia in the course of 24 hours, E. V. Sukhishvili on the wind energy reserves of Georgia, Sh. V. Mosidze on the radiation and heat balances in the alpine zone of the Kazbegi, Ye. R. Dvali on the radioactivity of the atmosphere in Tbilisi and Dusheti, Ya. A. Tsutskiridze on the albedo of different natural surfaces, Sh. G. Gavasheli (UGMS of the Gruzinskaya SSR) on the ground temperature conditions in Tbilisi, V. Sh. Tsomaya on the method developed by him for forecasting the number of days with ice mash, V. F. Pyk-

Card 2/3

lova on a method for the calculation of the volume of rain water supply in floods, G. P. Pastukhova (UGMS of the Azerbaydzhanskaya SSR) on the use of indices of the atmospheric circulation in hydrological forecasts. The representative of the UGMS of the Armyanskaya SSR M. V. Shaginyan reported on the characteristics of the formation of the water supply for spring floods on the rivers of Armenia. A. A. Pogosyan (UGMS of the Armyanskaya SSR) pointed to the special role of the snow cover of the belt between 1800 and 2400 m in the formation of the water supply for spring floods on the rivers of Armenia. V. F. Svanidze spoke on the method of forecasting easily accessible humidity in the soil below grain cultures. M. P. Stolypin and Sh. I. Tsertsvadze spoke on the periods set for the opening of vineyards in Transcaucasia. O. M. Kandelaki, L. A. Enfiadzhyan (UGMS of the Armyanskaya SSR), and K. S. Chernysh spoke on the microclimatic conditions of the Lambalinskiy massif in the Armyanskaya SSR. In all, 27 papers were read.

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N-2-224, PT.

3(1) PHASE I BOOK EXPLOITATION SOV/3099

Tbilisi. Nauchno-issledovatel'skiy gidrometeorologicheskiy institut

Trudy, Vyp. 4 (Transactions of the Tbilisi Hydrometeorological Scientific Research Institute, No. 4) Leningrad, Gidrometeoizdat, 1959. 178 p. 1,500 copies printed.

Additional Sponsoring Agency: USSR. Soviet Ministrov. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.

Ed. (Title page): V. P. Lominadze; Ed. (Inside book): V. D. Pisarevskaya; Tech. Ed.: N. V. Volkov.

PURPOSE: This book is intended for meteorologists and hydrologists.

COVERAGE: This is a collection of 12 articles on jet streams and turbulent currents, the analysis of the effect of orography on changes in atmospheric pressure, the characteristics of the temperature regime in the free atmosphere, the development of methods of forecasting storms, low cloud ceilings, fogs, water discharges, spring floods and various other hydrometeorological phenomena in the Transcaucasia area. Of particular interest are articles on visibility conditions around Transcaucasian airports the aerosynoptic

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conditions causing air bumpiness in the area. References accompany each article.

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZADZE, R.I.

Determining the horizontal compnents of wind velocity. Trudy Tbil.MIGMI no.5:16-27 '59. (MIRA 13:6)
(Winds)

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3(7) PHASE I BOOK EXPLOITATION SOV/2592

Moscow. Tsentral'nyy institut prognozov

Voprosy dinamicheskoy meteorologii (Problems in Dynamic Meteorology) Moscow, Gidrometeoizdat, 1959. 69 p. (Series: Its Trudy, vyp. 86) Errata slip inserted. 900 copies printed.

Sponsoring Agency: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR.

Ed. (Title page): S. A. Mashkovich; Ed. (Inside book): L. V. Blinnikov; Tech. Ed.: I. M. Zarkh.

PURPOSE: This issue of the Institute's Transactions is intended for specialists working in the field of dynamic and synoptic meteorology.

COVERAGE: This collection of articles treat problems of short-range weather forecasting using the methods of dynamic meteorology. The use of an electronic computing machine "Pogoda" in short-range (36 hours) forecasting of pressure fields at sea level and at 300 mb is described. The programming and coding system are discussed in some detail. The author concludes that the forecasting accuracy of the method he describes is on a par with

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corresponding statistical techniques used in non-Soviet countries. References accompany each article.

TABLE OF CONTENTS:

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B105/B138

24.5500
15.2210

AUTHORS: Kutateladze, K. S., Zedginidze, Ye. N., Nozadze, T. V.

TITLE: Sheaths for immersion thermocouples for measuring the temperature of molten metals

PERIODICAL: Ogneupory, no. 5, 1962, 223-225

TEXT: The quartz sheaths used to protect the junctions of thermocouples only last for a single immersion in molten steel. Alumina sheaths with an admixture of 1% TiO_2, made in the Podol'skiy zavod ogneupornykh izdeliy (Podol'sk Plant of Refractory Materials), will stand two immersions, and zirconium dioxide sheaths made in the Institut metallurgii Ural'skogo filiala AN SSSR (Institute of Metallurgy of the Ural Branch of the AS USSR) can be kept in molten steel for 40-50 min. Those made by the process developed by the Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad Technological Institute imeni Lensovet) last for 15 short immersions in molten steel at 1650-1720°C. This article presents the experimental results obtained for sheaths which stand

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repeated immersion in molten metals. They were produced from a mixture of 87.5% kaolin and 12.5% aluminum powder, dried out, and burned at 1400°C in purified nitrogen. Refractoriness was 1850°C, bulk weight 1.8 g/cc, porosity 38.4% and water absorption 21.32%. Experiments in molten steel, pig iron, ferromanganese, aluminum, zinc, cadmium, lead, tin, and bismuth showed that the sheaths could stand repeated immersions at temperatures ranging from 1620° for the steel to 350° for zinc. The technology suggested is simple, and the starting materials are inexpensive. There are 4 figures.

ASSOCIATION: NII Promstroymaterialov SNKh Gruzinskoy SSR (NII of Promstroy Materials of the SNKh, Gruzinskaya SSR)

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZAKOV, N., kandidat tekhnicheskikh nauk.

Vacuum welding. Tekh. mol. 25 no.5:7-8 My '57. (MLRA 10:6)
(Electric welding) (Vacuum)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

POLAND / Cosmochemistry. Geochemistry. Hydrochemistry. D

Abs Jour : Referat Zhur--Khimiya, No. 11, 1959, 38147

Author : Nozanka, M.
Inst : Not given
Title : Sanidyn in the Porphyritic Rocks in the Lomnic Region (Sudetenland).

Orig Pub : Przeglad Geol, 6, No. 6, 263, (1958) (in Polish)

Abstract : A brief description is given of sanidyn crystals. Using data from an unpublished chemical analysis, the author has described the basic chemical properties of the enclosing porphyritic rock. -- G. Vorob'yev

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

Z/040/63/000/001/003/007
E073/E492

AUTHOR: Nozar, Jaroslav

TITLE: Central airport Berlin - Schönefeld

PERIODICAL: Letecký obzor, no.1, 1963, 16-17

TEXT: Within the general plan of rebuilding the central airport, existing buildings are being used provisionally. Temporary facilities for handling domestic and foreign traffic of 1,600,000 passengers per annum with a peak handling capacity of 1100 passengers per hour were provided. Between the railway station (S-Bahn), the new passenger handling facilities and the hotel, a bus service at 10 minute intervals has been established connecting with every train. Also large parking facilities for buses and cars have been provided. Putting into operation provisional passenger handling facilities concluded the first stage of construction of the central Berlin - Schonefeld airport. The building of a 3600 m long runway to cary any type of aircraft (IL-14, IL-18, TU-104) began in 1959. The runway was operational on July 16, 1961; on October 7, 1962 the hangar was completed. The next stage envisages the construction of the passenger

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Central airport Berlin - Schönefeld E073/E492

handling building. The present passenger handling building will be converted into stores and freight despatching depot. Underground LPH distribution systems will be constructed so that it will eliminate refueling of aircraft from mobile systems. In front of the building a concrete passenger handling area of 200000 m^2 and a parking space for 5000 cars are to be provided. More concrete will be required than for the building of the 3600 m long, 60 m wide runway. Furthermore, a central heat supply station, a 9-storey control building, a surgery and a further hangar are to be built. Foreign passenger traffic will be handled from a hall 121 m long and 20 m wide. In addition to a post-office, telephone booths, cloak-rooms, ticket offices, visa sections and frontier police post, there will also be various shops selling souvenirs. From the transit hall passengers will be transported to the aircraft by buses. At the beginning of May 1962, a hotel was opened with 79 rooms containing 200 beds. The hotel is only 300 m from the airport. There are 4 photographs and 1 figure.

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

Z/032/60/010/07/010/030
E073/E335

AUTHORS: Báša, Fr., Engineer and Nozar, K.

TITLE: Manufacture of Globoidal Worm Gears on Worm Milling Machines

PERIODICAL: Strojírenství, 1960, Vol 10, Nr 7, pp 509 - 521

ABSTRACT: In spite of the great advantages of globoidal worm gears, they are not used in Czechoslovakia to sufficient extent. The authors published in the Nr 7, 1957, issue of Strojírenství an article relating to the calculation of globoidal gear transmissions and numerous Czech works are at present using this method for designing such gear transmissions. However, considerable difficulties have been encountered in the manufacture and the Czech manufacturers are not satisfied with the quality of the globoidal gears they produce. It is stated that this deficinecy is due to incorrect technology and the aim of the paper is to supplement information given in the paper published earlier and to acquaint the Czech engineering community with the correct technology of manufacturing globoidal worm gears on current-type worm milling machines, which are available in most of the larger works. The

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Z/032/60/010/07/010/030
E073/E335

Manufacture of Globoidal Worm Gears on Worm Milling Machines

process of manufacture is dealt with in great detail, describing the entire manufacturing technology and giving a considerable number of numerical data, sketches and photographs, including sketches of the cutting-tool geometry. The description is supplemented by detailed treatment of a numerical example. There are 29 figures and 5 references, of which 1 is Czech and 4 are Soviet.

ASSOCIATION: Závody V.I. Lenina, Plzeň (V.I. Lenin Works, Pilsen)

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APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZAROVA, Pavla, MUDr

General examination and preparation of patients with chronic skin defects. Rozhl.chir. 33 no.1:1-4 Jan 54.

1. Klinika plasticke chirurgie, prednosta prof. Dr F.Burian, Praha
(SKIN, wounds and injuries,
management)
(WOUNDS AND INJURIES,
skin, management)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZDRACHEV A.D.

Country : USSR
Category : Farm Animals. Cattle. Q-2
Abs. Jour : Ref Zhur-Biol., No 14, 1958, 73999

Author : Nozdrachev, A. D.
Institut. : Leningrad Institute for the Advanced Training of*
Title : Anatomic-Topographical Investigation of the Pelvic Innervation in Cows.

Orig Pub. : Sb. nauchn. tr. Leningr. in-t usoversh. vet. vrachey, 1957, vyp. 11, 172-184

Abstract : It was shown on 10 carcasses of cows aged 2-12 years that nerves, nerve plexuses and vessels are situated in layers in the parietal cellular tissue space of the pelvis. The first layer consists basically of somatic nerves, the second is mainly vascular, the third is represented by sympathetic and parasympathetic nerves, by their branches, nodes and plexuses. Vaginal, cervical, uterine, urinary bladder, and rectal plexi compose the fourth layer of the pelvis'

Card: 1/2

*Veterinarians.

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZDRACHEV, A.D., kand.vet.nauk

Novocaine block of the pelvic organs in cows. Veterinariia. 35 no.12:54-55 D '58. (MIRA 11:12)

1. Leningradskiy institut usovershenstvovaniya veterinarnykh vrachey.
(Novocaine) (Veterinary obstetrics)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

17(1)

AUTHOR: Nozdrachev, A. D.

SOV/20-125-2-61/64

TITLE: On the Effect of Serotonin Upon the Nervous System (O deystvii serotonina na nervnuyu sistemu)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 2, pp 454-456 (USSR)

ABSTRACT: The role of serotonin (5-hydroxy-tryptamine) in the organism and its effect on various functions more and more attract the attention of scientists (Refs 3, 4, 7-11). It is present in all human and animal organs and tissues at various levels of phylogenetic development (Ref 11). Limited and sometimes contradictory statements haven been made regarding its effect on the nervous system. The effect of serotonine on conditioned reflex activity has not yet been elucidated. This problem has gained particular importance as in other countries synthetic serotonin is used in psychiatry. The present experiment was made on 25 pigeons, 18 chicks and 7 rabbits. In pigeons a single intramuscular injection of large doses (20 - 40 mg/kg) causes general depression, disturbances of coordination, loss of the faculty of localization, muscle

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On the Effect of Serotonin Upon the Nervous System

tremor. The birds died after 11 - 21 minutes. Intravenous injection caused death either during injection or a few seconds afterwards. The pneumogram and the cardiogram show an abrupt change of respiration and heart-rhythm. Death is a consequence of suspended respiration. Small doses (0.01 mg/kg) suppress the response to external stimuli and cause a slight trembling of muscles. These changes receded after 3/4 - 1 hour. In chicks intravenous injection of 1 - 20 mg/kg caused a violent motor and vocal reaction which lasted for 5 - 7 seconds, always accompanied by defecation and followed by a period of total immobilization, muscle atony, inclination of head. This stage was followed by one of dyspnoea and general depression, which lasted 1 1/2 - 2 hours. Other pathological symptoms after injection of various doses in various parts of the body are described. A tremor which constantly occurs in rabbits indicates disturbances of the function of the mesencephalon. The impairment of the flying function in pigeons as well as the adynamia in chicks and epileptomorphous attacks in rabbits indicate a disturbance of the function of subcortical centres. These investigations permit to assert that serotonin affects above all subcortical structures. There are 12 references,

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SOV/20-125-2-61/64

On the Effect of Serotonin Upon the Nervous System

2 of which are Soviet.

ASSOCIATION: Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR
(Institute of Experimental Medicine of the Academy of Medical Sciences, USSR)

PRESENTED: November 24, 1958, by N. N. Anichkov, Academician

SUBMITTED: November 19, 1958

Card 3/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZDRACHEV, A.D.

Experimental studies on the effect of serotonin on certain motor functions of the organism. Fiziol. zhur. 47 no.1:115-120 Ja '61. (MIRA 14:3)

1. From the Institute of Experimental Medicine, Leningrad.
(SEROTONIN) (MOVEMENT (PHYSIOLOGY))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

BRESLAV, I.S.; ZHIRONKIN, A.G.; IL'NITSKIY, A.M.; KONZA, E.A.; MITYUSHOV, M.I.; MOZDRACHEV, A.D.; SALATSINSKAYA, Ye.N.; TROSHIKHIN, G.V.; SHMELEVA, A.M.

Some data on the effect of a closed space on the physiological functions in animals. Probl.kosm.biol. 2:291-302 '62. (MIRA 16:4)

(SPACE MEDICINE)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZDRACHEV, A.D.; SYRENSKIY, V.I.; SHICHKO, G.A.

Size of the dog brain before and after its fixation by perfusion of the cerebral vessels with a 10% formalin solution. Biul. eksp. biol. i med. 56 no.9:120-122 S '63.

(MIRA 17:10)

1. Iz fiziologicheskogo otdela imeni Pavlova (zav. - deystvitel'nyy chlen AMN SSSR prof. P.S. Kupalov) Instituta eksperimental'noy meditsiny (dir. - deystvitel'nyy chlen AMN SSSR prof. D.A. Biryukov), Leningrad. Predstavlena deystvitel'nym chlenom AMN SSSR P.S. Kupalovym.

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

SHISHKO, I.A.; SYRENSKIY, V.I.; NOZDRACHEV, A.D. (Leningrad)

Method for fixation of the brain through the blood vessels. Arkh. pat. 26 no.9:71-74 '64. MIRA 18:1

1. Fiziologicheskiy otdel imeni Pavlova (zav. - deystvitel'nyy chlen AMN SSSR prof. P.S.Kupalov) Instituta eksperimental'noy meditsiny AMN SSSR.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

L 53922-65

ACCESSION NR: AP5017361 UR/0239/64/050/011/1400/1402

AUTHOR: Nozdrachev, A. D.; Fel'cher, V. L. 7 B

TITLE: Simple arrangment for the differential separation of nerve impulses according to amplitude and their quantitative evaluation

SOURCE: Fiziologicheskiy zhurnal SSSR, v. 50, no. 11, 1964, 1400-1402

TOPIC TAGS: nervous system, neurology, medical equipment, electronic equipment

Abstract: An electronic arrangement for recording nerve impulses is described in which the impulses are separated from background noise and then counted. Impulses above a certain amplitude, the level of which can be selected depending on the requirements of the experiment, are separated and counted separately. A record is thus obtained of 1) all impulses; 2) impulses with an amplitude above a certain level. The type of results obtained is illustrated on the example of recordings of the nerve impulses of a dog that received systematic intravenous injections of acetylcholine.
Orig. art. has 6 figures and 1 graph.

ASSOCIATION: Institut fiziologii im. I. P. Pavlova AN SSSR, Leningrad (Institute of Physiology, AN SSSR)

Card 1/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

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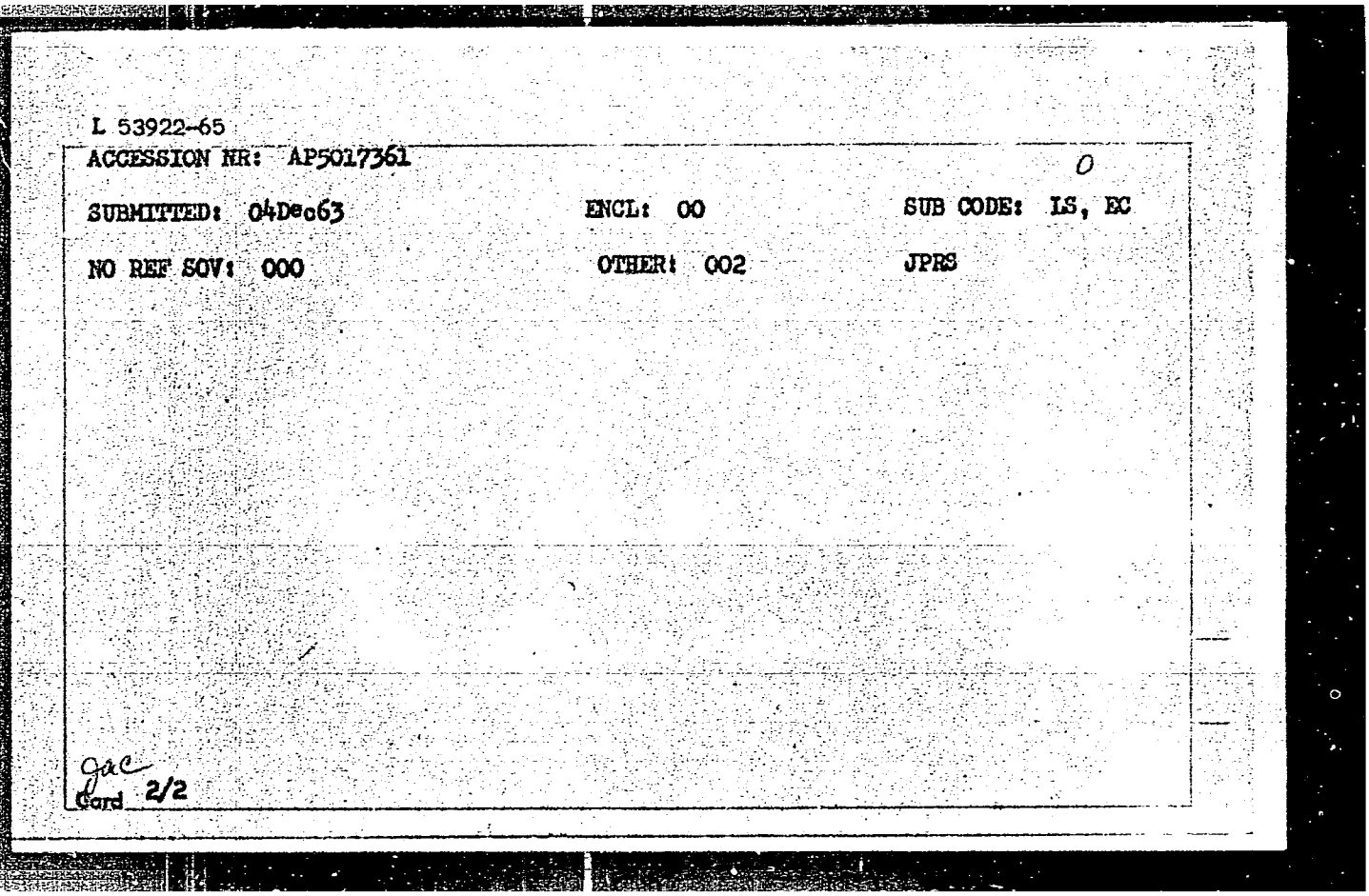

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ACCESSION NR: AP5017361 0

SUBMITTED: 04Dec63 ENCL: 00 SUB CODE: LS, EC

NO REF SOV: 000 OTHER: 002 JPRS

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

ACCESSION NR: AP4015154 S/0219/64/057/002/0045/0047

AUTHOR: Nozdrachev, A. D.; Fedorova, L. D.

TITLE: Interrelationships between the adrenal cortex and the thyroid under normal conditions and under conditions of cold stress

SOURCE: Byul. eksper. biologii i meditsiny*, v. 57, no. 2, 1964, 45-47

TOPIC TAGS: cold, cold stress, adrenal cortex, cortisone, thyroid gland, thyroid activity stress dependence, thyroid adrenal cortex relationship, thyroid activity cortisone suppression

ABSTRACT: Histological studies of thyroid slices stained by the method of Heidenhain, as well as estimations of thyroid weight and body weight, showed that exposure to cold stress (a constant temperature of 5C for 10 days) produced increased thyroid activity in adult male rats and mice. Administration of cortisone (0.5 mg/day i.p.) under normal conditions, in contrast, depressed thyroid activity, in agreement with reports in the literature. In rats exposed to cold, however, cortisone produced a further increase in thyroid activity. Orig. art. has: 1 table.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

ACCESSION NR: AP4015154

ASSOCIATION: Institut fiziologii im. I. P. Pavlova AN SSSR (Institute of Physiology)

SUBMITTED: 04Jan63 DATE ACQ: 12Mar64 ENCL: 00

SUB CODE: AM NO REF SOV: 002 OTHER: 014

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APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

ZHIRONKIN, A.G.; BRESLAV, I.S.; KONZA, E.A.; NOZDRACHEV, A.D.; SALATSINSKAYA, Ye.N.; TROSHIKHIN, G.V.; FEDOROVA, L.D.; SHMELEVA, A.M.

Effect of prolonged sojourn of animals in oxygen-enriched air on some physiological functions. Probl. kosm. biol. 4:518-530 '65. (MIRA 18:9)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

L 14303-66 EWT(l)/EWT(m)/FS(v)-3/EWP(j) SCTB WW/DD/RD/RM

ACC NR: AT6003894 SOURCE CODE: UR/2865/65/004/000/0581/0586

AUTHOR: Nozdrachev, A. D.

ORG: none

TITLE: Method for recording action currents of autonomic nerves under continuous experimental conditions

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 581-586

TOPIC TAGS: dog, electrophysiology, autonomic nervous system, biosensor

ABSTRACT: A method for implanting electrodes in the pre- and post-ganglionic branch of the caudal mesenteric node and in sinus and splanchnic nerves is described. A 10 mm, 0.1 mm^2 platinum lead is employed and is soldered to flexible insulated copper wires. The following diagrams show the configuration of electrodes and nerves and the collector setup:

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

L 14303-66
ACC NR: AT6003894

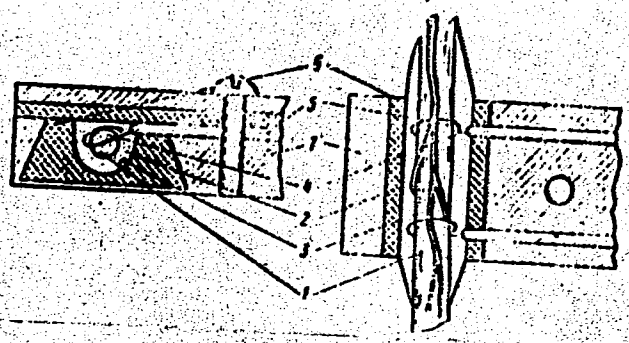

Fig. 1. Diagram of the position of the electrode and nerve in the capsule

1 - nerve; 2 - connective tissue coupling; 3 - vessels; 4 - platinum electrodes; 5 - flexible leads; 6 - fluoroplastic basin; 7 - plexiglass chassis.

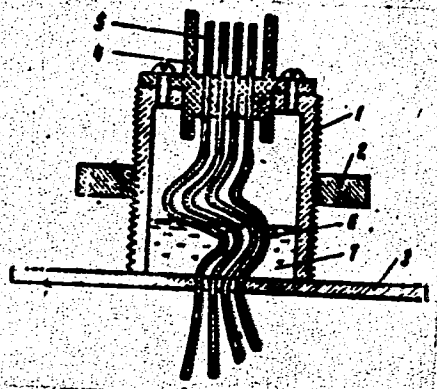

Fig. 2. Diagram of the collector

1 - plexiglass tube; 2 - movable threaded flange; 3 - plate; 4 - coupling; 5 - coupling pins; 6 - flexible leads; 7 - paraffin.

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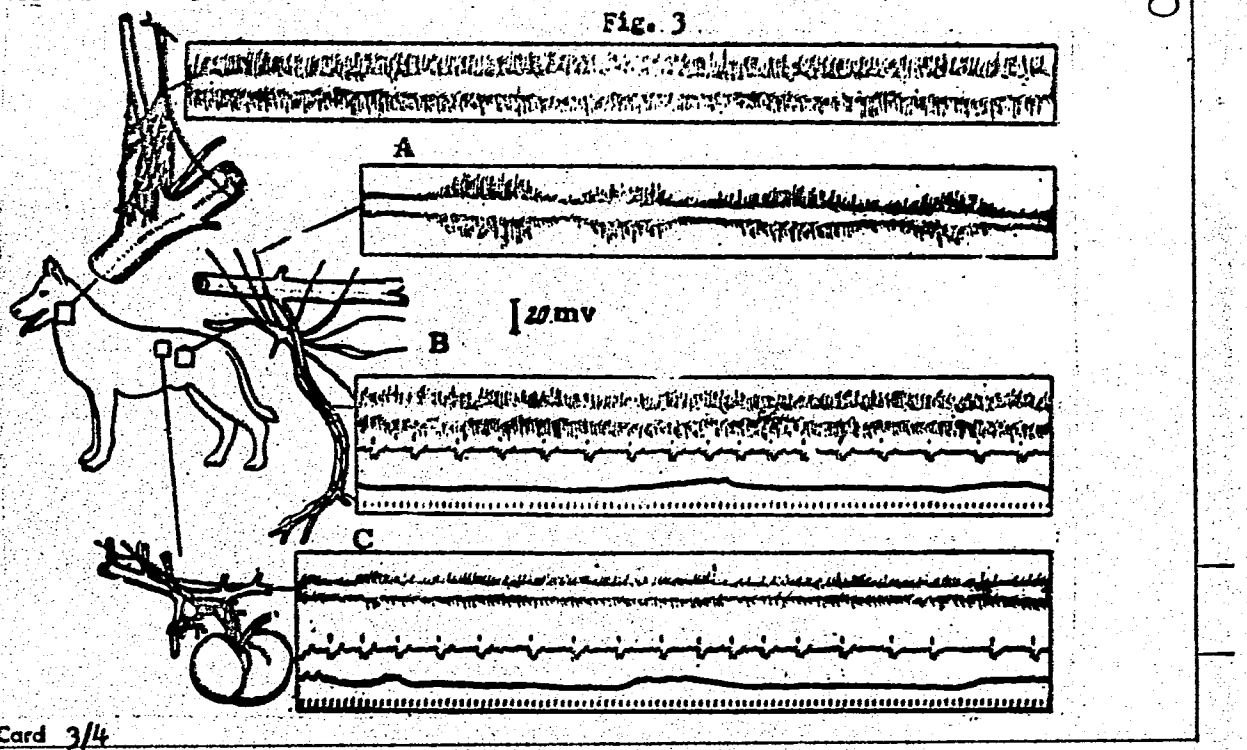
ACC NR: AT6003894

Fig. 3



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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

L 14303-66

ACC NR: AT6003894

Fig. 3. Action currents of autonomic nerves taken 10 months after electrode implantation.

A - sinus nerve; B - preganglionic branch; C - postganglionic branch of the caudal mesenteric node; D - splanchnic nerve. Time marker - 10 cps.

A detailed description of the surgical methods used in implanting the electrodes is given. It is pointed out that during the first day after implantation nerve, current deviations may be observed due to inflammation around the implantation zone, but that these disturbances usually disappear as the electrode becomes fully grounded. After a few days, a strong connective tissue sheath forms which rigidly fixes the capsule. The formation of the sheath and proper fixation of electrodes assures that the character of action currents will be consistent over a long period of time. In the author's experiments, the neurograms of dogs were unchanged after 10 months. To test the reliability of these methods, the author conducted a brief experiment on the nerves in question and found that the oscillograms of both briefly and chronically studied specimens were analogous. Fig. 3 shows the results of some chronic experiments. Orig. art. has: 3 figures. [ATD PRESS: 4091-F]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 003 /

Card 4/4

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

L 11369-67 EWT(1) SCTB DD/GD

ACC NR: AT6036492 SOURCE CODE: UR/0000/66/000/000/0056/0057

AUTHOR: Barutkina, T. S.; Zarubaylo, T. T.; Mityushov, M. I.; Nozdrachev, A. D.; Panov, A. N.; Fedorova, L. D.; Shalyapina, V. G.

34

ORG: none

TITLE: Adrenal cortex and nervous system stress reactions [Paper presented at conference on problems of space medicine held in Moscow from 24-27 May 1966]

SOURCE: Koferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 56-57

TOPIC TAGS: animal physiology, adrenal gland, nervous system, space physiology, biologic metabolism

ABSTRACT:

For a number of years the authors' laboratory has investigated the reaction of the nervous system to various stressors (pain, electric shock, noise, cold etc.) as a function of the adrenal cortex. In chronic dog experiments using implanted electrodes, it was established that there is a decrease in afferent and efferent impulsation, which takes place within a day under the influence of stressors.

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

L 11369-67

ACC NR: AT6036492

An injection of hydrocortisone prevents bioelectrical depression while desoxycorticosteronacetate either has no effect or a converse one by way of actually depressing bioelectric activity.

The reaction of brain catecholamines to stressors may depend on the level of peripheral blood corticosteroids. For instance, injection of large doses of hydrocortisone precludes a decrease in brain catecholamine level in response to cold. Chronic injection of "physiological doses" of hydrocortisone prevents a decrease in brain norepinephrin during the chronic application of stressors. Stress leads to a significantly greater depletion of brain catecholamine reserves in adrenalectomized animals than in intact animals.

The metabolism of the brain was studied in a resting state and during stress. The concentration of ATP, ADP, AMP, GTP, GDP, lactic, citric, pyruvic and ketoglutaric acids were determined after injection of hydrocortisone in animals in a resting state and during electrocutaneous stimulation. It was found that under these experimental conditions, which entailed prolonged (one day) irritation, metabolic indices were unchanged. Brief (45 sec) irrita-

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L 11369-67

ACC NR: AT6036492

tion caused an intensification of glycolysis. Injection of hydrocortisone lowered the content of ATP while the concentration of ADP, AMP, and citric acid was increased. [W. A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: 00May66

Card 3/3

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"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

L 34735-66
ACC NR: AP6025126 SOURCE CODE: UR/0239/66/052/001/0046/0056

AUTHOR: Nozdrachev, A. D. 30 B

ORG: Institute of Physiology im. I. P. Pavlov, AN SSSR, Leningrad (Institut fiziologii AN SSSR)

TITLE: Electrophysiological characteristics of afferent and efferent impulses in automatic nerves in a chronic experiment

SOURCE: Fiziologicheskiy zhurnal SSSR, v. 52, no. 1, 1966, 46-56

TOPIC TAGS: dog, autonomic nervous system, heat biologic effect, biologic metabolism, neurology

ABSTRACT: Dogs were used in experiments conducted to determine the character of afferent and efferent impulses in some of the nerves of the autonomic nervous system. Electrodes were implanted into the subsplanchic, greater splanchnic, and colon nerves. The Nozdrachev method of implantation suggested in 1963 was used. A cold block was used to interrupt nervous conductivity, and to separate the impulses and the afferent and efferent currents. It is well known that a temperature reduced to +5 degrees and lower blocks the transmission of nervous impulses by the nervous conductors. The device used to block the transmission of impulses is described. The experiments established that under conditions of a chronic experiment two types of afferent impulse potentials, a slow with an amplitude of 10-12 microvolts, and

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L 34735-66
ACC NR: AP6025126

a rapid with oscillations registering 12 and higher microvolts are noted in the greater splanchnic nerve and the postganglionic branches of the mesenteric ganglion; group form outbreaks are characteristic of afferent impulses; these are usually synchronized with respiration and the pulse rate; afferent impulsion is intensified by acetylcholine, pain caused by an electric current, or the irrigation of serous membranes with a glucose solution; such impulsion is depressed by the administration of adrenalin or large quantities of physiological solution. Efferent impulse potentials in the greater splanchnic nerve and the postganglionic branches of the mesenteric ganglion, recorded under conditions of a chronic experiments, are noted more often in group form usually synchronized with cardiac activity and respiration, and with amplitudes of 15 to 30 microvolts and higher; nongroup forms record amplitudes of 10 to 15 microvolts. As in acute experiments the administration of acetylcholine or pain caused by an electric current intensify the frequency and amplitude of efferent impulses; adrenalin and physiological solution tend to depress them. Orig. art. has: 6 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 18Jul64 / ORIG REF: 025 / OTH REF: 009

Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

ACC NR: AT6036663 SOURCE CODE: UR/0000/66/000/000/0291/0292

AUTHOR: Nozdrachev, A. D.

ORG: none

TITLE: Effect of steroid hormones on the character of vegetative nervous system electrical activity under stress conditions [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24-27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 291-292

TOPIC TAGS: endocrinology, animal physiology, autonomic nervous system, physiologic stress

ABSTRACT:

The afferent and efferent impulsation in sympathetic nerves and electrical activity of the lower mesenteric ganglion was studied using implanted electrodes. Also used was a special adaptation for reversibly excluding conductivity under chronic conditions and during stress against a background of steroid hormone injections.

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ACC NR: AT6036663

Dogs were placed in a special chamber. Electrocutaneous stimulus with a duration of 30 sec was rhythmically presented at 3 min intervals throughout the day. Upon termination, the magnitude of electrical reactions (in afferent and efferent nerves) to the injection of acetylcholine, adrenalin and standard stimulation of the cutaneous part of the sciatic nerve was studied.

It was found that under stress conditions, afferent impulses in response to the application of standard stimuli, studied immediately after and 3, 5, 10, and 15 min after their application, statistically decreased. Here, the number of high voltage, bunched oscillations reflecting mechanoreceptor activity, as well as low voltage, unbunched oscillations reflecting chemoreceptor activity was lowered. Preliminary injection of 30 mg of desoxycorticosteronacetate did not cause the recovery of either high or low voltage impulses. In a number of cases, hormone injection enhanced a greater depression of the evoked reaction. On the other hand, injection of 125 mg of hydrocortisone prevented a decrease in the magnitude of evoked reactions to standard stimuli. This effect was exerted on both high and low voltage impulses ($p < 0.05$).

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ACC NR: AT6036663

Under stress conditions the electrical activity of the lower mesenteric ganglion was also decreased. This change, was more pronounced than afferent and efferent changes. A simultaneous decrease in the number of low voltage, unbunched, and high voltage, bunched impulses in the rhythm of pulsed jolts and respiratory movements was noted. As in the case of sympathetic impulsation, a depression of electrical activity in the ganglion was recorded immediately after application of standard stimulus and after 3, 5, 10, and 15 min. These deviations statistically differed from responses under normal conditions. On the other hand, an injection of 125 mg of hydrocortisone prevented a shift in electrical activity. Here, the number of impulses recorded did not differ from baseline data ($p < 0.05$).

The results of these observations indicate that stress conditions depress the electrical activity of sympathetic structures, that a preliminary injection of hydrocortisone prevents the development of these changes, and that desoxycorticosteronate has no substantial effect.

[W. A. No. 22; ATD Report 66-116]
SUB CODE: 06 / SUBM DATE: 00May66

Card 3/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

L 1260-66

ACCESSION NR: AP5024392 UR/0286/65/000/015/0073/0073 Q
615.372.002.2 B

AUTHOR: Arkhipov, V. V.; Filonov, Yu. A.; Nechayeva, L. A.; Khrushchev, V. G.; Perminov, T. A.; Shevyrev, N. S.; Zolozov, I. F.; Belyayev, A. S.; Nozdrachev, A. I.; Yevglevskiy, A. A.

TITLE: A method for manufacturing tuberculin. Class 30, No. 173381

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 73

TOPIC TAGS: tuberculosis, immunology, allergen

ABSTRACT: This Author's Certificate introduces a method for manufacturing tuberculin. The method consists of growing a tubercular culture on a nutrient medium, removal of the bacterial matter and filtration. An active and specific allergen is produced and labor-consuming operations are reduced by exposing the culture to Co^{60} γ-radiation.

ASSOCIATION: none

SUBMITTED: 11Jun64 ENCL: 00 SUB CODE: LS

NO REF SOV: 000 OTHER: 000

Card 1/1

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

USSR / Farm Animals. Small Horned Stock. Q

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40452.

Author : Nozdrachev I. F., Krymskiy S. S.
Inst : Not given.
Title : Sheep Breeding in Kazakhstan.

Orig Pub: Ovtsevodstvo, 1957, No 11, 31-34.

Abstract: No abstract.

Card 1/1

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

NOZDRACHEV, M. G., NABOKA, V. A., SAFRONOV, B. G., KALMYKOV, A. A., TIMOFEYEV, A. D., PANKRAT'YEV, YU, I., TERESHIN, V. I., TRUBCHANINOV, S. A.,

"Plasma Guns Investigation,"

report presented at the 6th Intl. Conf. on Ionization Phenomena in Gases, Paris, France, 8-13 Jul 63

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5"

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001237620005-5

ACCESSION NR: AT4025306 S/0000/63/000/000/0163/0172

AUTHORS: Kalmy*kov, A. A.; Timofeyev, A. D.; Pankrat'yev, Yu. I.; Nozdrachev, M. G.

TITLE: Investigation of a plasma source with the aid of a through passage mass spectrometer

SOURCE: Diagnostika plazmy* (Plasma diagnostics); sb. statey. Moscow, Gosatomizdat, 1963, 163-172

TOPIC TAGS: mass spectrometer, plasma source, plasmoid, plasmoid acceleration, plasma injection, ion separation

ABSTRACT: In view of the lack of information on the internal structure of plasmoids and of a satisfactory description of the mechanism of plasma acceleration in different plasma guns, and in view of the difficulty of interpreting the experimental results on interaction between plasmoids and magnetic fields owing to the lack of this in-

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